CONSTRUCTION QUALITY ASSURANCE CHECKLIST

Predesign / Schematic Design	
Major constructability issues have been identified.	
Contractual type has been identified and is appropriate (fixed price, design build, 8a set aside,	
competitive negotiation, etc.)	
All compliance has begun or is complete (SHPO, NEPA, EA, etc.)	
Scope of work consistent with program and within budget.	
Work on easements, right of ways, cooperative agreements, etc. have been initiated.	
Design Development	
Required permits (Water, Sewer, and Road) are outlined.	
State or local contacts included.	
Individual permit requirements have been listed.	
All compliance has begun or is complete (SHPO, NEPA, EA, etc.)	
Logistics - traffic control, impacts to park and visitor operations have been considered and address	sed.
Site access issues, load limits, bridge and/or tunnel height restrictions have been identified.	
Long lead items, material and equipment availability, special delivery or construction requirements	have
been considered.	
Value Engineering potential has been investigated.	
Notes on drawings are appropriate and do not conflict with the specifications or General Provisions	.
Standard NPS division 1 specifications have been incorporated. Edited to the greatest extent possi	ble.
Preliminary site investigation complete and existing conditions verified and included.	
Hazardous material testing has been done and scope of work identified.	
Archeological potential has been assessed and protection specified. Coordination with Park has occurred.	
Availability of material, labor, and equipment on remote sites has been considered.	
New utility services contracted separately and not a part of this package.	
Draft Constructability checklist has been completed.	
All legal work completed (easements, right of ways, cooperative agreements, etc.).	
Estimate is within budget with appropriate mark ups for this stage of development.	
The draft Price Schedule is completed and coordinated with specifications.	
Construction Documents	
Final Constructability checklist included and completed.	
State and local permit review comments and details have been incorporated.	
All compliance is complete	

_ No funding issues. Class A estimate is within available funds.
 _ Special inspection requirements listed.
 _ Staging areas are identified on site plan
 _ Staging areas are adequate for the intended purpose.
 _ Availability of temporary utilities for staging (cost and time implications, park supplied or contractor)
_ Logistics – traffic control, impacts to park and visitor operations have been considered and addressed.
_ Impacts of site access issues have been included in special conditions.
 Long lead items that may affect contract period have been considered.
 _ Specialized equipment and materials have been considered in the estimate and contract period.
 _ Sole source materials have been adequately justified.
_ Government furnished equipment and materials are adequate and will be available when the contractor
needs them.
Requirements for resource protection specified and adequately shown.
_ Accurate survey data on the plans (BMs, TBMs, TOPO)
Construction limits adequately shown and defined (needed for both access and construction limits).
_ Special signage requirements addressed (traffic, park, etc.).
_ All existing utilities located and accurately shown
_ Temporary system requirements have been coordinated with park or concession needs.
 _ Salvageable items have been identified and listed.
 Noise, dust and special safety concerns have been addressed in the special conditions.
 _ Constraints on means and methods are justifiable.
 _ If rock excavation is expected it is clearly defined and accounted for in the Price Schedule with an
estimated quantity.
 _ If Blasting is allowed the standard NPS explosives specification is included with all safety requirements.
 _ Hazardous material scope of work is clearly shown, quantified and accounted for in the estimate. State
and local requirements have been considered.
_ Archeological monitoring requirements have been addressed in the specifications. Sensitive zones are
protected.
_ If the availability of material, labor, or equipment is an issue on remote sites has it been considered in the
cost estimate and in the overall contract period.
_ Site access constraints are appropriate.
_ Appropriate contract length (considering weather, seasons, long lead items, fabrication and delivery,
etc.).
 _ Park or Concession imposed restrictions included in the package are appropriate and impacts to cost and
schedule have been considered.
_ Clear delineation of local utility responsibilities (scope, equipment supplied etc.) and contractor
responsibilities included as a part of this contract.

 _ Disruption of utilities and down times have been coordinated with the park and language included in
division 1 specifications.
 _ Specific phasing requirements have been included as needed.
 _ Specialized materials are necessary and mfg. installation and certifications are specified.
Park or concessionaire beneficial occupancy's (grand openings, fixed completion dates) have been
considered in the overall planning.
 _ Overlaps with adjacent and concurrent contracts have been identified with requirements for contractor to
coordinate as needed.
 _ Value engineering decisions have been incorporated.
 _ Training and certifications have been outlined in the individual spec sections.
_ Operation and maintenance requirements have been included.
_ Notes on drawings are appropriate and do not conflict with the specifications or General Provisions.
_ Adequate detail provided.
 _ Specified products are detailed on drawings as needed.
 _ Check for consistency of terminology between drawings and specifications.
 _ Identify outdated code requirements.
 _ Identify obsolete materials specified.
 _ Verify all spec section references are correct and specification is included in the package.
 _ Standard NPS Division 1 specifications have been utilized, and fully edited.
 _ Contractor's use of premises has been appropriately addressed.
 Park hours of operation and seasonal shut downs have been included.
 _ Relevant reports are included (soils, hazmat, etc.)
 _ Project schedule requirements are up to date and appropriate for the project size and complexity.
 _ Submittal requirements match internal NPS/DSC processes.
 _ All reference standards have been incorporated.
 _ Quality control staff requirements are appropriate.
 _ All required forms have been attached to individual specification sections.
 _ Temporary service requirements have been coordinated with the Park and identified as either
Government furnished or Contractor responsibility.
 _ Contracting Officer's field office, furnishings, and equipment requirements have been adequately
addressed.
 _ Adequate barriers specified and shown on the site plan.
 $_$ Requirements for compliance with applicable laws, environmental regulations, and ordinances have been
included.
 Park security requirements and special permits addressed as required.
 Price Schedule included with Contract line item descriptions that are clearly written and collectively
describe all work included in the contract.

 All Options or alternates are accurately described and identified on the drawings.
 _ Measurement for payment language included for each Contract line item accurately describes how
completed work will be measured for payment.
Payment information included for each Contract line item reflects type of payment (lump sum or unit
price).
Price schedule coordinated with specification section 01270 (Definition of Contract Line Items) and class
A cost estimate.
Estimate is broken down per CSI format with Materials, Labor and Equipment for each Contract Line
Item.